```
                         10        20        30        40        50        60        70
   1  MGVQ----FGDFIPK--NIISFEDLKGKKVAIDGMNALYQFLTSIRLRDGSPLRNRKGEITSAYNGVFY  MJAFEN1.PRO
   1  MGVP----IGEIIPR--KEIELENLYGKKIAIDALNAIYQFLSTIRQKDGTPLMDSKGRITSHLSGLFY  PFUFEN1.PRO
   1  MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQ-GGDVLQNEEGETTSHLMGMFY  HUMFEN1.PRO
   1  MGIHGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQ-GGDVLQNEEGETTS-LMGMFY  MUSFEN1.PRO
   1  MGIKGLNAIISEHVPSAIRKSDIKSFFGRKVAIDASMSLYQFLIAVRQQDGGQLTNEAGETTSHLMGMFY  YST510.PRO
   1  MGVHSFWDIAG----PTARPVRLESLEDKRMAVDASIWIYQFLKAVRDQEGNAVKN------SHITGFFR  YSTRAD2.PRO
   1  MGVSGLWNILE----PVKRPVKLETLVNKRLAIDASIWIYQFLKAVRDKEGNQLKS------SHVVGFFR  SPORAD13.PRO
   1  MGVQGLWKLLE----CSGROVSPEALEGKILAVDISIWLNQALKGVRDRHGNSIEN------PHLLTLFH  HUMXPG.PRO
   1  MGVQGLWKLLE----CSGHRVSPEALEGKVLAVDISIWLNQALKGVRDSHGNVIEN------AHLLTLFH  MUSXPG.PRO
   1  MGVQGLWKLLE----CSGRPINPGTLEGKILAVDISIWLNQAVKGARDRQGNAIQN------AHLLTLFH  XENXPG.PRO
   1  MTINGIWEWANHVV---RKVPNETMRDKTLSIDGHIWLYESLKGCEAHHQQT-----PNSYLVTFFT  CELRAD2.PRO

                         80        90        100       110       120       130       140
  64  KTIHLLENDITPIWVFDGEPPKLKEKTRKVRREMKEKAELKMKEAIKK----EDFEEAAKYAKRVSYLTP  MJAFEN1.PRO
  64  RTINLMEAGIKPVYYFDGEPPEFKKKELEKRREAREEAEKWREALEK----GEIEEARKYAQRATRVNE  PFUFEN1.PRO
  70  RTIRMMENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAAA----GAEOEVEKFTKRLVKVTK  HUMFEN1.PRO
  69  RTIRM-ENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQEA----GMEEEVEKFTKRLVKVTK  MUSFEN1.PRO
  71  RTLRMIDNGIKPCYVFDGKPPPDLKSHELTKRSSRRVETEKKLA--EA---TTELEKMKQERRLVKVSK  YST510.PRO
  61  RICKLLYFGIRPVFVFDGGVPVLKRETIRQKERRQGKRESAKSTARKLLALQLQNGSNDNKRDSDEVTM  YSTRAD2.PRO
  61  RICKLLFFGIKPVFVFDGGAPSLKRQTIQKRQARRLDREENATVTANKLLALQMRHQAMLLKRDADEVTQ  SPORAD13.PRO
  61  RICKLLFFRIPIFVFDGDAPLLKKQTLVKRRQRKDLASSDSRKTTEKLLKTFLKRQAIKTERIAATVTG  HUMXPG.PRO
  61  RLCKLLFFRIRPIFVFDGDAPLLKKQTLAKRRQRKDSASIDSRKTTEKLLKTFLKRQALKTDRIAASVTG  MUSXPG.PRO
  61  RLCKLLFFRIRPIFVFDGEAPLLKRQTLAKRRQRTDKASNDARKTNEKLLRTFLKRQAIKAERIAATVTG  XENXPG.PRO
  60  RIQRLLELKIIPIVVFDNINASSSAHESKDQNEFVPRKRRSFGDSPFTNLV------------------  CELRAD2.PRO
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FIG. 70A

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         150       160       170       180       190       200       210
         |         |         |         |         |         |         |
130 KMVENCKYLLSLMGIPYVEAPSEGEAQASYMAKKGDVWAVVSQDYDALLYGAPRVVRNLTTTKEM----      MJAFEN1.PRO
130 MLIEDAKKLLELMGIPIVQAPSEGEAQAAYMAAKGSVYASASQDYDSLLFGAPRLVRNLTITGKRKLPGK     PFUFEN1.PRO
136 QHNDECKHLLSLMGIPYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQ     HUMFEN1.PRO
134 QHNDECKHLLSLMGIPYLDAPSEAEASCAALAKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQ     MUSFEN1.PRO
134 EHNEEAQKLLGLMGIPYIIAPTEAEAQCAELAKKGKVYAAASEDMTLCYRTPFLLRHLTFSEAKKEPIH      YST510.PRO
131 DMIKEVQELLSRFGIPYITAPMEAEAAQCAELLQLNLVDGIITDDSDVFLFGGTKIYKNMFHEKNY---VE    YSTRAD2.PRO
131 VMIKECQELLRLFGLPYIVAPOEAEAAQCSKLLELKLVDGIVTDDSDVFLFGGTRVYRNMFNQNKF---VE    SPORAD13.PRO
131 QMFLESQELLRLFGIPYIQAPMEAEAAQCAILDLTDQTSGTITDDSDIWLFGARHVYRNFFNKNKF---VE    HUMXPG.PRO
131 QMFLESQELLRLFGVPYIQAPMEAEAOCAVLDLSDQTSGTITDDSDIWLFGARHVYKNFFNKNKF---VE     MUSXPG.PRO
131 QMCLESQELLQLFGIPYIVAPMEAEAAQCAILDLTDQTSGTITDDSDIWLFGARHVYKNFFSQNKH---VE    XENXPG.PRO
111 DHVYKTNALLTELGIKVIIAPGDGEAQCARLEQLGVTSGCITTDFDYFLFGGKNLYRFDFTAGT-----      CELRAD2.PRO


         220       230       240       250       260       270       280
         |         |         |         |         |         |         |
195 ------PELIELNEVLEDLRISLDDLIDIAIFMGTDYNPGGV--K--GIGFKRAYELVRSGVAK--DV       MJAFEN1.PRO
200 NVYVE-IKPELILEEVLKELKLTREKLIELAILVGTDYNPGGI--K--GIGLKKALEIVRHSKDPLAKF      PFUFEN1.PRO
206 EFHLSRILQELQELGLNQEQFVDLCILLGSDYCESIRGIGPKRAVDLIQK--HKSIEEIVRRLDPN---KY    HUMFEN1.PRO
204 EFHLSRVLQELQELGLNQEQFVDLCILLGSDYCESIRGIGAKRAVDLIQK--HKSIEEIVRRLDPS---KY    MUSFEN1.PRO
204 EIDTELVLRGLDLTIEQFVDLCIMLGCDYCESIRGVGVGPVTALKLIKT--HGSIEKIVEFIESGESNNTKW   YST510.PRO
198 FYDAESIKLLGLDRKNMIELAQLLGSDYTNGLKGMGPVSSIEVIAEF---GNLKNFKDWYNNGOFDKRK      YSTRAD2.PRO
198 LYLMDDMKREFNVNQMDLIKLAHLLGSDYTMGLSRVGPVLALEILHEFPGDTGLFEFKKWFQRLSTGHAS     SPORAD13.PRO
198 YYQYVDFHNQLGLDRNKLINLAYLLGSDYTEGIPTVGCVTAMEILNEFPGHGLEPLLKFSEWWHEAQKNP     HUMXPG.PRO
198 YYQYVDFHNQLGLDRNKLINLAYLLGSDYTEGIPTVGCVTAMEILNEFPGRGLDPLLKFSEWWHEAQNNK     MUSXPG.PRO
119 YYQYVYDFYSQLGLDRNKLINLAYLLGSDYTEGIPTVGYVSAMEILNEFPGGQLEPLVKFKEWWSEAQKDK    XENXPG.PRO
198 YYQYADIHNOLGLDRSKLINLAYLLGSDYTEGIPTVGYVSAMEILNEFPGGQLEPLVKFKEWWSEAQKDK
175 --------------------------SSTACLHDIMHLSLGRMFM-----                         CELRAD2.PRO
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FIG. 70B

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            290        300        310        320        330        340        350
251 LKKEVEYYDEIKRIFKEPKV-----------------TD--NYSLSLKLPDKEGIIKFLVDENDFNYD MJAFEN1.PRO
265 QKQSDVDLYAIKEFFLNPPV-----------------TD--NYNLVWRDPDEEGILKFLCDEHDFSEE PFUFEN1.PRO
269 PVPENWLHKEAHQLFLEPEV----------------LDPESVELKWSEPNEEELIKFMCGEKQFSEE HUMFEN1.PRO
267 PVPENWLHKEAQQLFLEPEV----------------VDPESVELKWSEPNEEELVKFMCGEKQFSEE MUSFEN1.PRO
272 KIPEDWPYKQARMLFLDPEV--------------IDGNEINLKWSPPKEKELIEYLCDDKKFSEE YST510.PRO
265 QETENKFEKDLRKKLVNNEIILDDDFPSVMVYDAYMRPEVDLDMLRSFMKTQLGWPHE YSTRAD2.PRO
268 KNDVNTPVKKRINKLVGK-IILPSEFPNPLVDEAYLHPAVDDSKQSFQWGIPDLDELRQFLMATVGWSKQ SPORAD13.PRO
268 KIRPNPHDTKVKKL--RTLQLTPGFPNPAVAEAYLKPVVDDSKGSFLWGKPDLDKIREFCQRYFGWNRT HUMXPG.PRO
268 KVAENPYDTKVKKL--RKLQLTPGFPNPAVADAYLRPVVDDSRGSFLWGKPDVDKIREFCORYFGWNRM MUSXPG.PRO
268 KMRPNPNDTKVKKL--RLLDLQQSFPNPAVASAYLKPVVDESKSAFSWGRPDLEQIREFCESRFGWYRL XENXPG.PRO
194 -----EKKVSRPHLISTAILLGCDYFORGVQNIGIVSVFD-ILGEFGDDGNEEIDPHVILDRFASYVRE CELRAD2.PRO

            360        370        380        390        400        410        420
300 RVKKHVDKLYNLIA----------------------------                    MJAFEN1.PRO
314 RVKNGLERLKKAI-----------------------------                    PFUFEN1.PRO
320 RIRSGVKRLSKSRQGS-TQGRLDDFFKVT-------------                    HUMFEN1.PRO
318 RIRSGVKRLSKSRQGS-TQGRLDDFFKVT-------------                    MUSFEN1.PRO
323 RVKSGISRLKKGLKSG-IQGRLDGFFOVV-------------                    YST510.PRO
335 KSDEILIPLIRDVNKRKK-------------KGKQ                           YSTRAD2.PRO
337 RTNEVLLPVIQDMHKKOF------------VGTQ                            SPORAD13.PRO
336 KTDESLFPVLKQLDAQQTQLRIDSFFRLAQQEKEDAKRIKSQRLNRAVTCMLRKEKEAAASEIEAVSVAM HUMXPG.PRO
336 KTDESLFPVLKQLDAQQTQLRIDSFFRLAQQEKQDAKLIKSHRLSRAVTCMLRKEREEKAPELTKVTEAM MUSXPG.PRO
336 KTDEVLLPVLKHLNAHQTQLRIDSFFRLEQHEAAG--LKSQRLRRAVTCMKRKERDVEAEVEAAVAVM XENXPG.PRO
257 EIPARSEDTQRKLRLRRKKYNFPVGFPNCDAVHNAITMYLRPPVSSEIPKIIPR---AANFQQVAEIM CELRAD2.PRO
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FIG. 70C